

**State of Alaska**  
**DIVISION OF GEOLOGICAL & GEOPHYSICAL SURVEYS**  
**Manuscript Review Form**

<b>Report Title</b>	Tsunami inundation maps of King Cove and Cold Bay Communities, Alaska
<b>Author(s)</b>	E.N. Suleimani, D.J. Nicolsky, J.T. Freymueller, R.D. Koehler, and A.E. Macpherson
<b>Editor</b>	Paula Davis <a href="mailto:paula.davis@alaska.gov">paula.davis@alaska.gov</a> 907-451-5053

**Recommendation**

<input type="checkbox"/> Accept as submitted	Revisions needed for:	<input type="checkbox"/> Do not accept. Major revisions required. Return to author.
<input checked="" type="checkbox"/> Accept with minor revisions	<input type="checkbox"/> manuscript	
<input type="checkbox"/> Accept with major revisions	<input type="checkbox"/> tables	<input type="checkbox"/> Do not accept. Material not suitable for a (RI, series). Return to author.
	<input type="checkbox"/> figures	
	<input type="checkbox"/> map(s)	

**Reviewer's General Comments:**

I have extensively reviewed the report authored by Suleimani and others. The report is an excellent contribution to our understanding of tsunami hazards at the communities of King Cove and Cold Bay. The methodologies used are appropriate and a wide range of plausible scenarios has been considered by the authors. Faith in the DEM is enhanced by the groundtruthing using RTK-GPS. It is particularly nice to see the use of all available data, including GPS and paleoseismology in constructing reasonable scenarios for rupture on the Alaska-Aleutian megathrust itself.

Very minor suggestions include changing "of" to "for" in the title and adding a reference(s) in the first paragraph to support the statement that it is the most seismically active tsunamigenic fault zone in the US. I would also add the source for the rupture areas depicted on Figure 1 (I presume this is from aftershock distributions?) particularly as recent paleoseismology suggests rupture from the 1964 earthquake terminated at Sitkinak Island, a little further east of the western edge of rupture shown here.

One possible addition (that I leave up to the authors as it may be beyond the scope) is to mention the implications of this study for the stated desire in the paper of the Cold Bay community to build breakwaters, docks, and launches.

☐ I wish to be acknowledged in the final product.  
☒ I wish to remain anonymous in the final product

**Name of Reviewer, Organization, Address**

<b>Reviewer</b> Simon Engelhart	<b>email/phone</b> 401-874-2187 (direct line) <a href="mailto:engelhart@uri.edu">engelhart@uri.edu</a>
------------------------------------	--

<b>Reviewer Signature</b> _____	<b>Date</b> 10/1/2015
---------------------------------	-----------------------